

REGISTRATION INFORMATION

FOR MUSEUM EXPLORATIONS

REGISTER BY PHONE:

1. Decide which Exploration topic you want.
(Teachers may register for unlimited visits to the museum.
However, only **ONE** topic is available per visit.)

Atoms and Elements
Cryogenics
The Genetic Code
The Human Brain
Incredible Insects

The Manhattan Project Radiation Quarantine! Volts and Jolts

2. Be prepared with at least two possible dates for your visit. Museum programs are available during regular Museum hours. Even if you are not requesting a program, please call to schedule your visit so the Museum staff can expect you.

- 3. Call the Museum and talk with one of the science educators at 505-606-1492 (Monday-Friday, 8 AM–5 PM.)**

Please be prepared to give the following information:

- Name and phone number of teacher in charge
- Name and address of your school
- Number of students
- Grade level of students
- Number of chaperones (at least 1 per 6 students)
- Dates requested (suggest at least two)
- Exploration topic and activities requested

If you don't reach us and need to leave a message, please leave your name, best phone number to reach you, and best time to reach you.

After you register by phone, you will receive a written confirmation packet in the mail, including maps, directions, and Museum policies.

While you're planning a visit to Los Alamos, call ahead to schedule other activities in the area.

- **Learn more about World War II history** Los Alamos Historical Museum, 505-662-6272
- **Swim in an Olympic-size pool** Larry Walkup Aquatic Center, 505-662-8170
- **Visit ancient cliff dwellings** Bandelier National Monument, 505-672-3861
- **Ice skate in the canyon** Los Alamos Ice Rink (November to March), 505-662-4500
- **See local exhibitions** Art Center at Fuller Lodge, 505-662-9331
- **Eat lunch** Picnic tables are available within walking distance at Ashley Pond.

Ask a Scientist!

Got a science question? Email us!

www.lanl.gov/museum

edu-bsm@lanl.gov

505-606-1492

FOR SCIENCE ON WHEELS

REGISTER BY MAIL:

Please carefully read the Science on Wheels registration information at the bottom of the previous page as well as on the enclosed application form.

- Fill out the enclosed red application form and mail it back to the Museum. All applications **MUST BE RECEIVED** by **SEPTEMBER 14**.

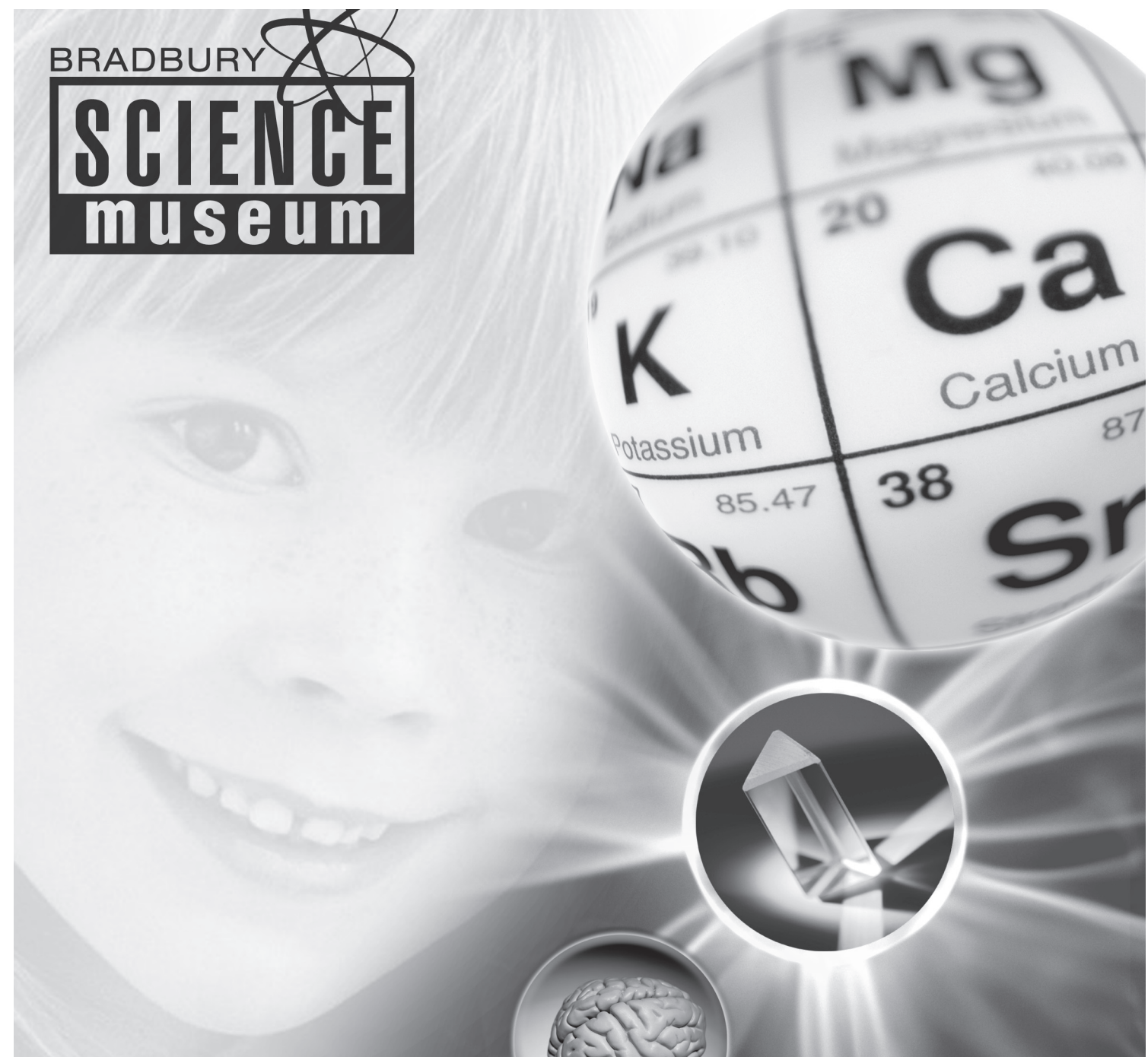
- In the event that we receive more applications than we have available dates, applications will be drawn randomly to select the school groups that will receive a Science on Wheels visit.

- The MORE FLEXIBLE you can be about the dates you request, the more likely you are to receive a Science on Wheels visit. However, be aware of any school holidays, testing periods, etc., since rescheduling is difficult.

- Confirmation letters telling you which date and program you received will be mailed the week of September 17. If your application is not drawn, you will get a letter telling you that you are on our waiting list. As cancellations occur, we will substitute applications from the waiting list.

- **YOU MUST CALL OR EMAIL US (505-606-1492 or edu-bsm@lanl.gov) to confirm your reservation no later than SEPTEMBER 28. Failure to confirm the visit may result in a cancellation.**

- With your confirmation letter you will receive a schedule for you to fill out about the day of the visit. Please return the schedule for the Science on Wheels visit to us before **SEPTEMBER 28**. We **MUST** have the schedule before our visit.



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Los Alamos National Laboratory, an affirmative action/equal opportunity employer, is operated by Los Alamos National Security, LLC, for the National Nuclear Security Administration of the United States Department of Energy under contract DE-AC52-06NA25396.

2007–2008 School Programs

All education programs are aligned with New Mexico state science content standards. Please see our website for the standards associated with each program.



Los Alamos
NATIONAL LABORATORY
EST. 1943

Bradbury Science Museum
Community Programs Office
Mailstop C330
Los Alamos, New Mexico 87544



Come to us for *Museum Explorations*

Enjoy a two-hour customized visit at the Bradbury Science Museum. Choose an Exploration topic from the science education programs listed below. Contact us to arrange a date for your visit and to discuss what will best meet your students' interests and needs. Our programs usually include each of the following:

- One interactive science class (see topics below) taught by the science educators
- Educational science video related to your chosen topic or the historical video about Los Alamos and the Manhattan Project
- Gallery Quest activity about the history and science of Los Alamos National Laboratory

Museum Exploration Programs

NEW!

The Genetic Code

Put on your secret decoder ring and come decode the molecule that is the basis of life! What is DNA and what does it do? What's a gene and how does it work?? Come experience the processes on a cellular level!

Cryogenics

This is one really cool demonstration! We use liquid nitrogen to show the effects of extreme cold on three states of matter: solids, liquids, and gases. Students will get a bang out of the ending of this demo.

NEW!

Project Y of the Manhattan Project

Take a trip back in time — to Los Alamos in its beginnings as the secret city in World War II. Experience the urgency of the mission as students become the team of scientists and engineers in a hands-on activity simulating the race to build the first atomic weapon.

Atoms and Elements

Come join us at the Periodic Table! Students will learn about the parts of atoms and the properties of matter, and they might even get to meet Dr. Mendeleev!

Incredible Insects

How does an insect protect itself? How do insects see the world around them? Your young entomologists will identify insects and explore some of the characteristics that make these creatures incredible!
(Note: There are no live insects in this class.)

Quarantine!

"Expose" your students to the world of germs and how they cause disease. Learn how germs are spread and how we can stop them.

(Note: No real pathogens are used in this program.)

Radiation

Explore the world of ionizing radiation! Students will learn the nature and effects of alpha, beta, and gamma radiation, the concept of half-life, and the differences between subcritical, critical, and supercritical reactions.

The Human Brain

This one will get you thinking, so BYOB: Bring Your Own Brain! Learn about the structures and functions of the brain and what makes your own brain unique!

Volts and Jolts

Charge up your students with hands-on static electricity activities using simple materials. Then, with a Van de Graaff generator we illustrate various static phenomena, including the popular hair-raising experience. Students will have a shocking good time with the finale to this class. ZAP!

BY SPECIAL REQUEST ONLY!

Physics Fun!

A fabulous program awaits you and your students as you see fantastic physics in action... and then conduct experiments yourselves!

This program is available only on Fridays and only by special arrangement.

Produced in association with UNM-LA

OR...

Science on Wheels



will come to your school!

Science on Wheels Programs

NEW!

It's Not Magic—It's SCIENCE!

Do magicians really do magic? Most magicians use science and math to pull off their tricks. Experience the irresistible fun of what looks like magic and learn the science behind the tricks!

Ready, Set, GO!

Take your students on a fascinating ride as they investigate Newton's laws of motion, inertia, force, reaction, and gravity.

NEW!

BONES!!!!

"Structure" your class for students to find out about their main frame! What are bones? What can they tell us? How do they work together? Learn about bones and skeletons of humans and other animals.

Micro World

Your students will sharpen their powers of observation using many different scientific tools, including microscopes. Older students will examine different kinds of cells.

Special requirements: We will need tables and electricity.

Circuit Connection

Make connections with your students! They will find out about the flow of electrons as they assemble simple circuits with batteries, wires, and light bulbs.

Polymer Lab

Mix up some fun with your students. Introduce them to the concept of polymers and then use chemical reactions to make a polymer. Further experiments test polymer properties.

Get Energized!

Energy takes many forms. Help your students discover their potential while experimenting with energy transformation using a variety of toys. This one is a blast!

Galaxy to Go

Bring the universe to your school! This portable, inflatable dome allows your students to explore the wonders of the night sky in a planetarium.

Special requirements: We will need a room with electricity that is 25 feet by 25 feet and AT LEAST 14-feet high with no hanging light fixtures, etc., below 14 feet.

Let's Rock

What can a rock tell us? Turn your students into rock hounds. Students learn about our dynamic planet and its rock cycle. They will also classify rock specimens using flash scopes and explore our traveling rock museum.

- Programs are available Monday, Tuesday, Thursday, and Friday, October through May, excluding holidays.
- Science on Wheels travels to schools within a 90-minute drive of the Bradbury Science Museum. FOR LOCATIONS 60-90 MINUTES FROM LOS ALAMOS, THE PROGRAM CANNOT START BEFORE 9:00 AM.
- We will bring the same 50-minute program to a minimum of four and a maximum of six classes to your school in one day.
- All programs require ONE LOCATION for the presentation, such as one teacher's classroom, or the gym, or the library, etc. Each class of students will rotate through this one location for the day.
- There must be NO OTHER ACTIVITIES scheduled in this room during the Science on Wheels program.
- Each class is 50 minutes long with a 10-minute break between classes to reset the equipment.
- Each program is designed for 24 students per class. If you have classes of more than 24 students, please contact us to discuss the arrangements for the program. PLEASE DON'T COMBINE CLASSES TO MAKE MORE THAN 24 STUDENTS.
- The classroom teacher MUST BE PRESENT at all times during the program.